

Abstract

Negative feedback control of a power supply is improved with respect to accuracy of control in that the controlled value is monitored by parallel analog to digital

5 conversion. Additionally, within the negative feedback control loop adjustment of the controlled value to follow a rated value is performed by pulse-width modulation. So as not to be bound with respect to accuracy of adjustment by pulse-width modulation to a minimum pulse-width adjustment
10 increment, fine adjustment is additionally done by superimposing to the pulse-width modulation a pulse-frequency modulated signal.

(Figs. 1 + 3)